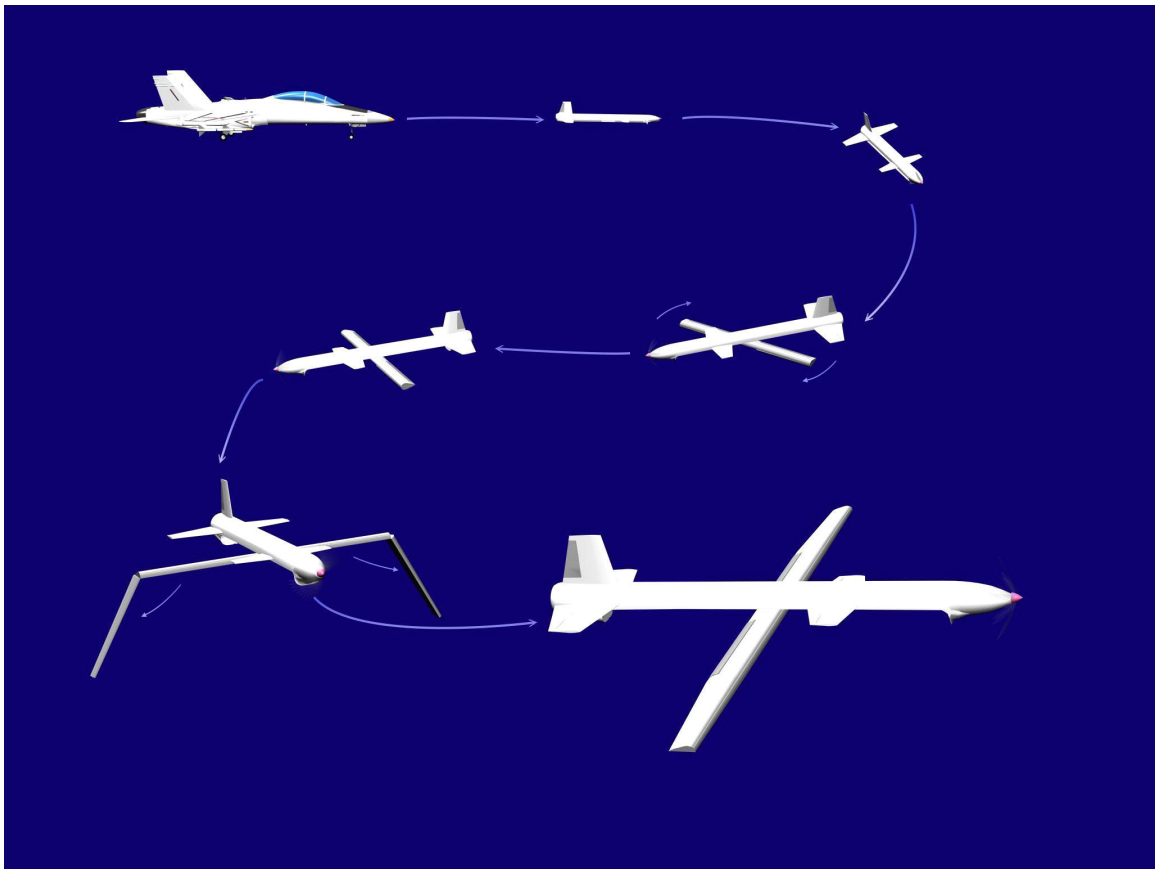
ALICE



ALICE (Air Launched Integrated Countermeasure, Expendable) is an NRL project to develop the technologies for an Unmanned Air Vehicle to be air launched from a tactical aircraft at speeds up to 1.2 Mach. It will glide using tail control surfaces until it reaches a speed of approximately 250 kt. The cruise wing and propeller then deploy and the JP-8 fueled engine starts. ALICE will cruise approximately 200 nmi in one hour before the outer wing panels deploy for loiter. In the loiter mode, it will operate at 65 kt with a two hour endurance and carry a 25 lb payload. Research efforts are underway to develop the polymorphic airframe, a high performance wing platform, the JP-8 fueled reciprocating engine, a high efficiency alternator, and a variable pitch propeller.

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